

CLAIMS**WHAT IS CLAIMED:**

1. A method for monitoring a performance of a computing system, comprising:
receiving data associated with monitoring performance of at least a portion of the
5 computing device in accordance with a monitoring scheme;
detecting a pattern in the received data; and
autonomously adapting the monitoring scheme responsive to the detected pattern.
2. The method of claim 1, wherein receiving data associated with monitoring performance
of at least a portion of the computing device comprises receiving data associated with monitoring
10 performance of a computing resource.
3. The method of claim 1, further comprising at least one of:
modifying the performance of the computing device in light of a predicted behavior
associated with the pattern; and
detecting an unknown pattern while autonomously testing the received data.
- 15 4. The method of claim 3, further comprising notifying a user of the detection of the
unknown pattern.
5. The method of claim 1, wherein autonomously testing the received data comprises
applying an expert system to the received data.
6. The method of claim 5, wherein applying the expert system comprises applying a fuzzy
20 logic system.
7. The method of claim 1, wherein autonomously adapting the monitoring scheme
comprises at least one of varying a frequency of sampling, varying a metric for the computing
resource, and monitoring the performance of the computing device with respect to another
computing resource.

8. The method of claim 1, further comprising modifying the performance of the computing device based on a predicted behavior associated with the pattern.
9. The method of claim 3, further comprising autonomously adapting the monitoring scheme responsive to detecting the unknown pattern.
- 5 10. An apparatus for monitoring a performance of a computing device, comprising:
an interface;
a control unit communicatively coupled to the interface, the control unit adapted to:
receive data over the interface, the data being associated with monitoring
performance of at least a portion of the computing device in accordance
10 with a monitoring scheme;
detect a pattern in the received data; and
adapt the monitoring scheme responsive to detecting the pattern.
11. The apparatus of claim 10, wherein the control unit is adapted to receive data associated with monitoring performance of a computing resource.
- 15 12. The apparatus of claim 10, wherein the control unit is further adapted to at least one of:
establish the monitoring scheme;
modify the performance of the computing device in light of a predicted behavior
associated with the pattern; and
detect an unknown pattern while autonomously testing the received data.
- 20 13. The computing apparatus of claim 10, wherein the control unit is further adapted to apply an expert system to the received data.
14. The computing apparatus of claim 10, wherein the control unit is further adapted to at least one of vary a frequency of sampling, vary a metric for the computing resource, and monitor the performance of the computing device with respect to another computing resource.

15. A program storage medium encoded with instructions that, when executed by a computing device, perform a method for monitoring the performance of a computing device, wherein the encoded method comprises:

receiving data associated with monitoring performance of at least a portion of the
5 computing device in accordance with a monitoring scheme;
autonomously testing the received data for a pattern in the monitored performance; and
autonomously adapting the monitoring scheme responsive to detecting the pattern.

16. The program storage medium of claim 15, wherein receiving data associated with monitoring performance of at least a portion of the computing device in the encoded method
10 comprises receiving data associated with monitoring performance of a computing resource.

17. The program storage medium of claim 15, wherein the encoded method further comprises at least one of:

establishing the monitoring scheme;
modifying the performance of the computing device in light of a predicted behavior
15 associated with the pattern;
comprising detecting an unknown pattern while autonomously testing the received data;
and
detecting an unknown pattern while autonomously testing the received data.

18. The program storage medium of claim 15, wherein autonomously testing the received
20 data in the encoded method comprises applying an expert system to the received data.

19. The program storage medium of claim 15, wherein autonomously adapting the monitoring scheme in the encoded method comprises at least one of varying a frequency of sampling, varying a metric for the computing resource, and monitoring the performance of the computing device with respect to another computing resource.